AMMUNITION AND COMPONENTS

1966

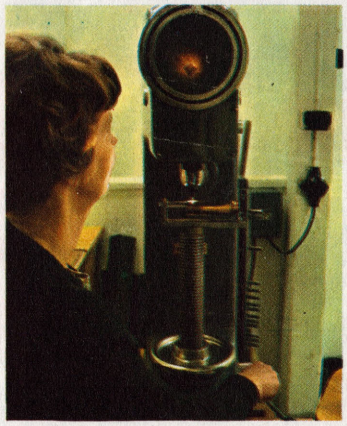
SPECIAL USA CATALOG

FACTS ABOUT norma

The first Norma factory was founded in Oslo, Norway in 1895 by the three brothers Ivar, Lars and Johan Enger. Being ardent shooters, they wanted to turn out top quality match rifle bullets for the Rifle Association of Norway, already then a 35-year old organization with tens of thousands of members. The Norma bullets soon became famous for their accuracy, and the Enger brothers received a request from Sweden for a similar plant in that country. It started in 1902, in the little town of Åmotfors just across the Swedish border. In 1911, Norma branched out into Denmark.

"Norma" is a coined name, connected with the fact that the company was founded in Norway, and that its bullets were "normalized", — kept to very exacting standards. The name Norma can be pronounced in any language in the world.

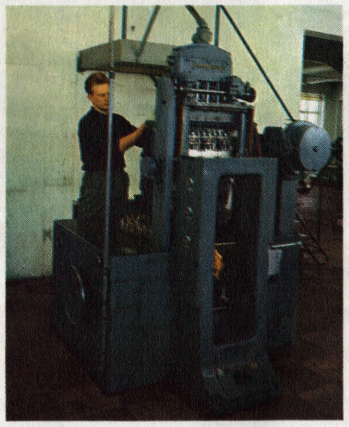
Loading of complete cartridges started during the first world war, and today Norma is one of the largest manufacturers of hunting, target and military ammunition in the world. At left, the largest and smallest brass case presently manufactured by Norma.



Checking hardness of the brass material at the neck of a finished case. Brass hardness is also checked in intermediate production stages.

Sample checks of cartridge case dimensions. All Norma cases are passed through gauging machines and then visually inspected.

All Norma bullets are passed through gauging and weighing machines and then visually inspected on conveyor belt.



Automatic loading machine first measures, then weighs every powder charge. Capacity per machine 40.000 rounds a day.

1966

norma

AMMUNITION AND COMPONENTS

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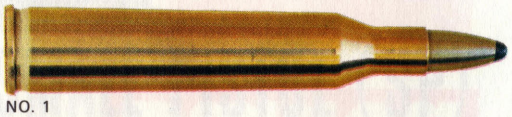
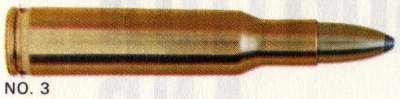
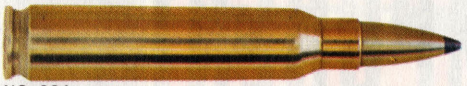
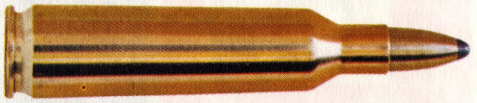
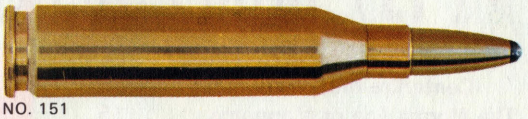
norma CENTERFIRE RIFLE CARTRIDGES

Norma ammunition is made from highest quality virgin materials of the company's own production, and loaded with the latest smokeless powder and non-corrosive, non-mercuric, non-erosive primer designs.

	Bullet					Case	No. cartr. or		Weight			
	Weight		Diameter		Index	Index	unprimed cases		Case		Box	
	Grains	Grams	Inch.	MM	No.	No.	Case	Box	Lbs	Kos.	Oz.	Kos.
22 HORNET												
NO. 251												
No. 251 Soft point semi pointed	45	2.9	.223	5.68	679	844	2000	50	35	16.0	8.5	0.24
220 SWIFT												
 NO. 1												
No. 1 Soft point semi pointed	50	3.2	.224	5.70	501	751	1000	20	46	20.3	14.8	0.42
222 REM.												
 NO. 3												
No. 3 Soft point semi pointed	50	3.2	.224	5.70	607	752	2000	20	62	28.2	9.5	0.27
223												
 NO. 234												
No. 234 Soft point pointed	55	3.6	.224	5.70	563	817	2000	20	61	27.5	10.6	0.30
22-250												
 NO. 231												
No. 230 Soft point semi pointed	50	3.2	.224	5.70	607	810	1000	20	43	19.0	14.4	0.41
No. 231 Soft point semi pointed	55	3.6	.224	5.70	609	810	1000	20	45	20.0	14.8	0.42
243 WIN.												
 NO. 151												
No. 5 Hollow point Ⓣ	75	4.9	.243	6.17	503	753	1000	20	48	21.3	15.9	0.45
No. 151 Soft point semi pointed	100	6.5	.243	6.17	566	753	1000	20	51	23.1	17.3	0.49
244 REM.												
NO. 8												
No. 7 Hollow point Ⓣ	75	4.9	.243	6.17	503	754	1000	20	53	23.9	15.9	0.45
No. 8 Soft point semi pointed	90	5.8	.243	6.17	504	754	1000	20	57	26.0	17.3	0.49

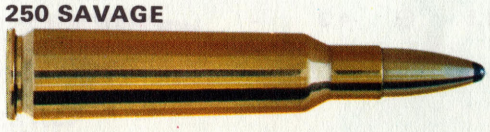
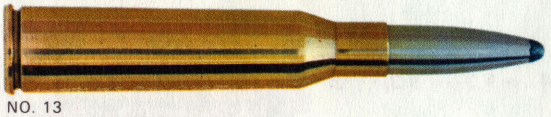
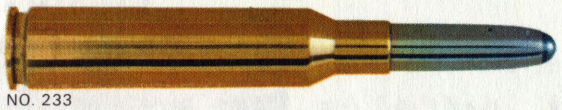
Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity — Feet per sec.				Energy — Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
SR	—	41000	2690	2030	1510	1150	720	410	230	130	-0.3	+0.9	+1.5	⊕	-4.3	—	—	—	—
LR	203	52100	4110	3611	3133	2681	1877	1448	1090	799	-0.9	-0.4	+0.1	⊕	-0.9	-2.7	-5.6	-15.2	-30.7
SR	200	45500	3200	2650	2170	1750	1140	780	520	340	-0.6	+0.1	+0.7	⊕	-2.2	-6.2	-12.5	-34.1	-73.4
SR	201	47000	3300	2900	2520	2160	1330	1027	776	570	-0.4	+0.4	+1.3	+1.3	⊕	-2.7	-7.0	-21.5	-46.8
LR	203	48500	3800	3300	2810	2350	1600	1209	885	613	-0.8	-0.3	+0.3	⊕	-1.2	-3.6	-7.3	-19.9	-42.0
LR	203	48500	3650	3200	2780	2400	1637	1251	944	704	-0.8	-0.2	+0.3	⊕	-1.3	-3.7	-7.4	-19.5	-39.7
LR	203	45100	3500	3070	2660	2290	2041	1570	1179	873	-0.7	-0.1	+0.4	⊕	-1.5	-4.2	-8.3	-21.8	-44.4
LR	204	43000	3070	2790	2540	2320	2090	1730	1430	1190	-0.6	±0.0	+0.6	⊕	-1.8	-4.9	-9.4	-23.1	-43.7
LR	203	41200	3500	3070	2660	2290	2040	1570	1180	875	-0.7	-0.1	+0.4	⊕	-1.5	-4.2	-8.3	-22.0	-45.3
LR	204	41600	3200	2850	2530	2230	2050	1630	1280	995	-0.6	±0.0	+0.5	⊕	-1.7	-4.8	-9.5	-24.6	-48.6

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210")

norma CENTERFIRE RIFLE CARTRIDGES

	Bullet					Case	No. cartr. or		Weight			
	Weight		Diameter		Index	Index	unprimed cases		Case		Box	
	Grains	Grams	Inch.	MM	No.	No.	Case	Box	Lbs	Kos.	Oz.	Kos.
6 MM REM.												
NO. 228												
No. 228 Soft point semi pointed	100	6.5	.243	6.17	566	828	1000	20	53	24.2	18.0	0.51
250 SAVAGE												
 NO. 10												
No. 9 Soft point semi pointed	87	5.6	.257	6.53	505	755	1000	20	53	23.9	15.9	0.45
No. 10 Soft point semi pointed	100	6.5	.257	6.53	506	755	1000	20	49	22.2	16.2	0.46
257 ROBERTS												
NO. 11												
No. 11 Soft point semi pointed	100	6.5	.257	6.53	506	756	1000	20	55	25.0	16.6	0.47
No. 12 Soft point semi pointed	120	7.8	.257	6.53	507	756	1000	20	59	27.0	18.0	0.51
6.5 JAP.												
 NO. 13												
No. 13 Soft point semi pointed boattail Ⓣ	139	9.0	.264	6.70	508	757	1000	20	56	25.5	18.3	0.52
No. 14 Soft point round nose Ⓣ	156	10.1	.264	6.70	509	757	1000	20	58	26.3	19.4	0.55
6.5x54 MS												
NO. 16												
No. 16 Soft point semi pointed boattail Ⓣ	139	9.0	.264	6.70	508	758	1000	20	55	24.8	18.0	0.51
No. 17 Soft point round nose Ⓣ	156	10.1	.264	6.70	509	758	1000	20	57	26.0	19.4	0.55
6.5 CARCANO												
 NO. 233												
No. 233 Soft point round nose Ⓣ	156	10.1	.264	6.70	509	829	1000	20	65	29.3	19.4	0.55

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

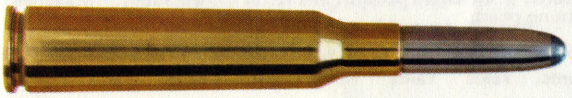
BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity — Feet per sec.				Energy — Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
LR	205	49200	3190	2920	2660	2420	2260	1890	1570	1300	-0.6	±0.0	+0.5	⊕	-1.2	-4.5	-8.7	-22.7	-42.2
LR	203	45500	3030	2660	2330	2060	1770	1370	1050	820	-0.6	+0.1	+0.7	⊕	-2.0	-5.6	-10.9	-26.9	-50.6
LR	203	41500	2820	2514	2223	1956	1769	1404	1098	850	-0.5	+0.3	+0.8	⊕	-2.4	-6.5	-12.7	-32.8	-66.2
LR	203	41100	2900	2588	2291	2020	1870	1488	1166	906	-0.5	+0.2	+0.8	⊕	-2.2	-6.1	-11.9	-30.1	-59.5
LR	203	39700	2650	2405	2177	1964	1865	1542	1263	1028	-0.4	+0.4	+1.0	⊕	-2.6	-7.1	-13.5	-33.5	-64.6
LR	203	32200	2428	2280	2130	1990	1820	1605	1401	1223	-0.2	+0.6	+1.1	⊕	-2.9	-7.8	-14.7	-35.4	-66.1
LR	203	31600	2067	1871	1692	1529	1481	1213	992	810	+0.2	+1.3	+1.9	⊕	-4.7	-12.4	-23.4	-57.2	-109.1
LR	203	43800	2575	2420	2270	2120	2056	1808	1591	1388	-0.4	+0.4	+1.0	⊕	-2.5	-6.8	-11.8	-31.1	-58.8
LR	203	45000	2461	2240	2033	1840	2098	1738	1432	1173	-0.2	+0.6	+1.2	⊕	-3.1	-8.3	-15.8	-38.9	-74.6
LR	200	32800	2000	1810	1640	1485	1386	1135	932	764	+0.3	+1.5	+2.1	⊕	-5.0	-13.2	-25.0	-61.0	-116.1

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210")

norma CENTERFIRE RIFLE CARTRIDGES

6.5x55



NO. 20

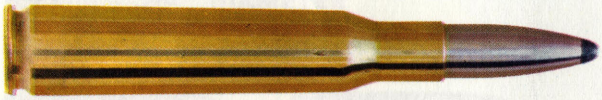
	Bullet					Case	No. cartr. or		Weight			
	Weight		Diameter		Index	Index	unprimed cases		Case		Box	
	Grains	Grams	Inch.	MM	No.	No.	Case	Box	Lbs	Kos.	Oz.	Kos.
No. 20 Soft point semi pointed boattail Ⓣ	139	9.0	.264	6.70	508	759	1000	20	61	27.5	19.7	0.56
No. 22 Soft point round nose Ⓣ	156	10.1	.264	6.70	509	759	1000	20	63	28.6	21.1	0.60

270 WIN.

NO. 28

No. 24 Soft point semi pointed	110	7.1	.277	7.04	514	760	1000	20	59	27.0	19.4	0.55
No. 25 Soft point semi pointed boattail Ⓣ	130	8.4	.277	7.04	515	760	1000	20	62	28.1	20.1	0.57
No. 103 Soft point "Nosler"	130	8.4	.277	7.04	588	760	1000	20	62	28.1	21.1	0.60
No. 28 Soft point semi pointed boattail	150	9.7	.277	7.04	518	760	1000	20	64	29.1	21.5	0.61
No. 104 Soft point "Nosler"	150	9.7	.277	7.04	589	760	1000	20	64	29.2	22.6	0.64

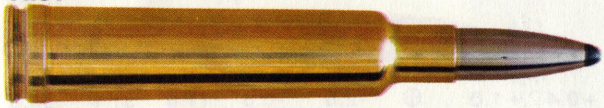
7x57



NO. 30

No. 29 Soft point semi pointed	110	7.1	.283	7.20	519	761	1000	20	55	25.0	18.0	0.51
No. 30 Soft point semi pointed boattail Ⓣ	150	9.7	.283	7.20	520	761	1000	20	60	27.4	20.1	0.57
No. 32 Soft point round nose Ⓣ	175	11.3	.283	7.20	522	761	1000	20	63	28.7	20.8	0.59

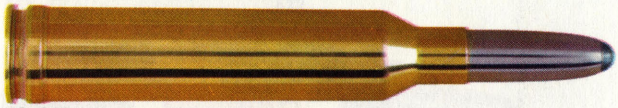
7x61



NO. 33

No. 33 Soft point semi pointed boattail Ⓣ	160	10.4	.283	7.20	523	762	1000	20	78	35.6	26.1	0.74
No. 123 Soft point "Nosler"	160	10.4	.283	7.20	590	762	1000	20	78	35.5	26.4	0.75

7 MM REM. MAGNUM



NO. 240

No. 240 Soft point semi pointed boattail Ⓣ	150	9.7	.283	7.20	520	826	1000	20	70	32.2	23.6	0.67
No. 124 Soft point "Nosler"	175	11.3	.283	7.20	654	826	1000	20	74	33.3	25.0	0.71
No. 241 Soft point round nose Ⓣ	175	11.3	.283	7.20	522	826	1000	20	74	33.5	25.0	0.71

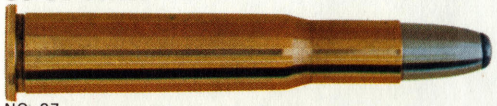
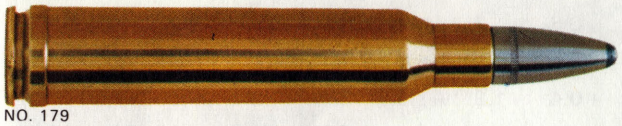
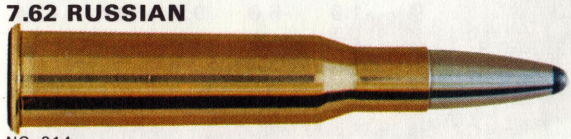
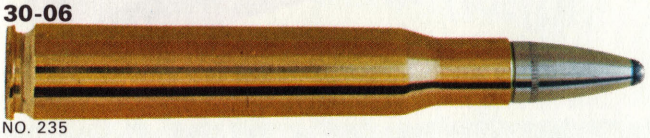
Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity — Feet per sec.				Energy — Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
LR	204	47100	2788	2630	2470	2320	2402	2136	1883	1662	-0.2	+0.7	+1.8	+1.6	⊕	-3.0	-7.5	-21.4	-42.8
LR	204	47100	2493	2271	2062	1867	2153	1787	1473	1208	-0.3	+0.6	+1.1	⊕	-3.0	-8.0	-15.4	-37.8	-72.4
LR	204	45000	3250	2966	2694	2435	2578	2150	1773	1448	-0.5	+0.3	+1.2	+1.2	⊕	-2.4	-6.0	-18.0	-37.3
LR	204	48500	3140	2884	2639	2404	2847	2401	2011	1669	-0.4	+0.4	+1.3	+1.2	⊕	-2.5	-6.4	-18.8	-38.6
LR	204	48500	3140	2884	2639	2404	2847	2401	2011	1669	-0.4	+0.4	+1.3	+1.2	⊕	-2.5	-6.4	-18.8	-38.6
LR	204	47400	2800	2616	2436	2262	2616	2280	1977	1705	-0.2	+0.8	+1.8	+1.6	⊕	-3.0	-7.7	-22.3	-44.8
LR	204	47400	2800	2616	2436	2262	2616	2280	1977	1705	-0.2	+0.8	+1.8	+1.6	⊕	-3.0	-7.7	-22.3	-44.8
LR	203	47100	3067	2792	2528	2277	2300	1904	1561	1267	-0.6	±0.0	+0.6	⊕	-1.8	-5.0	-9.7	-24.4	-47.4
LR	203	47100	2756	2539	2331	2133	2530	2148	1810	1516	-0.5	+0.3	+0.8	⊕	-2.3	-6.2	-11.8	-29.0	-55.5
LR	203	47700	2490	2170	1900	1680	2410	1830	1400	1100	-0.2	+0.7	+1.3	⊕	-3.3	-9.0	-17.2	-42.3	-80.6
LR	205	49000	3100 *	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
LR	205	49000	3100 *	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
LR	205	50800	3260	2970	2700	2450	3540	2945	2435	1990	-0.5	+0.3	+1.2	+1.2	⊕	-2.3	-6.0	-17.6	-36.0
LR	205	53600	3070	2900	2740	2590	3660	3269	2918	2607	-0.4	+0.4	+1.3	+1.2	⊕	-2.4	-5.9	-17.0	-33.8
LR	205	53600	3070	2720	2400	2120	3660	2870	2240	1590	-0.3	+0.6	+1.6	+1.5	⊕	-3.0	-7.6	-22.4	-45.8

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210") *) 26 inch. barrel

norma CENTERFIRE RIFLE CARTRIDGES

	Bullet					Case	No. cartr. or		Weight			
	Weight		Diameter		Index	Index	unprimed cases		Case		Box	
	Grains	Grams	Inch.	MM	No.	No.	Case	Box	Lbs	Kos.	Oz.	Kos.
30 US CARBINE												
NO. 35												
No. 35 Soft point round nose Ⓣ	110	7.1	.308	7.83	524	763	3000	20	94	42.4	10.9	0.31
30-30 WIN.												
 NO. 37												
No. 193 Soft point flat nose Ⓣ	150	9.7	.308	7.83	561	764	1000	20	55	25.2	18.3	0.52
No. 37 Soft point flat nose Ⓣ	170	11.0	.308	7.83	526	764	1000	20	57	25.9	18.7	0.53
308 NORMA MAGNUM												
 NO. 179												
No. 179 Soft point "Dual-Core" Ⓣ	180	11.6	.308	7.83	578	811	1000	20	81	37.0	27.8	0.79
308 WIN.												
NO. 236												
No. 143 Soft point semi pointed boattail Ⓣ	130	8.4	.308	7.83	529	765	1000	20	55	24.9	18.0	0.51
No. 38 Soft point semi pointed Ⓣ	150	9.7	.308	7.83	606	765	1000	20	58	26.5	19.4	0.55
No. 39 Soft point semi pointed boattail Ⓣ	180	11.6	.308	7.83	528	765	1000	20	62	28.2	20.8	0.59
No. 142 Soft point "Nosler"	180	11.6	.308	7.83	600	765	1000	20	67	30.5	20.8	0.59
No. 236 Soft point "Dual-Core" Ⓣ	180	11.6	.308	7.83	578	765	1000	20	63	28.3	20.8	0.59
7.62 RUSSIAN												
 NO. 214												
No. 214 Soft point semi pointed boattail Ⓣ	180	11.6	.308	7.83	528	819	1000	20	70	32.0	21.5	0.61
30-06												
 NO. 235												
No. 40 Soft point semi pointed boattail Ⓣ	130	8.4	.308	7.83	529	766	1000	20	62	28.2	20.1	0.57
No. 43 Soft point semi pointed Ⓣ	150	9.7	.308	7.83	606	766	1000	20	65	29.3	21.1	0.60
No. 213 Soft point "Nosler"	150	9.7	.308	7.83	601	766	1000	20	64	29.2	21.8	0.62
No. 45 Soft point semi pointed boattail Ⓣ	180	11.6	.308	7.83	528	766	1000	20	68	30.9	23.3	0.66
No. 212 Soft point "Nosler"	180	11.6	.308	7.83	600	766	1000	20	67	30.7	23.3	0.66
No. 235 Soft point "Dual-Core" Ⓣ	180	11.6	.308	7.83	578	766	1000	20	76	34.5	24.3	0.69
No. 48 Soft point round nose Ⓣ	220	14.2	.308	7.83	534	766	1000	20	77	35.1	24.3	0.69

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

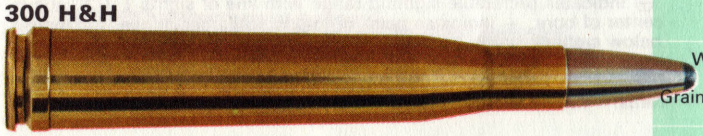
BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity – Feet per sec.				Energy – Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
SR	–	34800	1970**	1595	1300	1090	948	622	413	290	+0.6	+2.0	+2.7	⊕	-7.0	-19.1	-37.5	-97.2	-194.2
LR	201	41900	2410	2075	1790	1550	1934	1433	1066	799	- 0.1	+0.8	+1.4	⊕	-3.7	-10.1	-19.6	-49.3	-96.6
LR	201	41100	2220	1890	1630	1410	1860	1350	1000	750	+0.1	+1.2	+1.8	⊕	-4.5	-12.3	-23.8	-60.7	-121.0
LR	205	51600	3100	2881	2668	2464	3842	3318	2846	2427	-0.4	+0.4	+1.4	+1.2	⊕	-2.5	-6.2	-18.3	-37.1
LR	200	47800	2900	2590	2300	2030	2428	1937	1527	1190	-0.5	+0.2	+0.8	⊕	-2.2	-6.1	-11.8	-29.9	-59.0
LR	201	48500	2860	2570	2300	2050	2725	2200	1760	1400	-0.5	+0.2	+0.8	⊕	-2.2	-6.1	-11.9	-29.8	-58.5
LR	203	49000	2610	2400	2210	2020	2725	2303	1952	1631	-0.4	+0.4	+1.0	⊕	-2.6	-7.0	-13.4	-32.8	-62.5
LR	203	49000	2610	2400	2210	2020	2725	2303	1952	1631	-0.4	+0.4	+1.0	⊕	-2.6	-7.0	-13.4	-32.8	-62.5
LR	203	49000	2610	2400	2210	2020	2725	2303	1952	1631	-0.4	+0.4	+1.0	⊕	-2.6	-7.0	-13.4	-32.8	-62.5
LR	203	41900	2624	2415	2222	2030	2749	2326	1970	1644	-0.4	+0.4	+1.0	⊕	-2.6	-7.0	-13.3	-31.5	-62.1
LR	203	47000	3280	2951	2636	2338	3108	2514	2006	1578	-0.5	+0.3	+1.2	+1.2	⊕	-2.4	-6.3	-19.0	-39.9
LR	203	44500	2970	2680	2402	2141	2943	2393	1922	1527	-0.3	+0.6	+1.7	+1.5	⊕	-3.0	-7.8	-23.2	-48.3
LR	203	44500	2970	2680	2402	2141	2943	2393	1922	1527	-0.3	+0.6	+1.7	+1.5	⊕	-3.0	-7.8	-23.2	-48.3
LR	203	45300	2700	2494	2296	2109	2914	2487	2107	1778	-0.1	+0.9	+2.0	+1.8	⊕	-3.4	-8.7	-25.2	-51.1
LR	203	45300	2700	2494	2296	2109	2914	2487	2107	1778	-0.1	+0.9	+2.0	+1.8	⊕	-3.4	-8.7	-25.2	-51.1
LR	203	45300	2700	2494	2296	2109	2914	2487	2107	1778	-0.1	+0.9	+2.0	+1.8	⊕	-3.4	-8.7	-25.2	-51.1
LR	203	43700	2410	2197	1996	1809	2840	2358	1947	1599	-0.2	+0.7	+1.2	⊕	- 3.2	- 8.7	-16.5	40.5	-77.4

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210") **) 18 inch. barrel

norma CENTERFIRE RIFLE CARTRIDGES

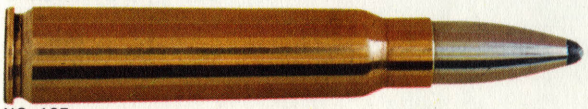
300 H&H



NO. 50

	Bullet Weight Grains	Bullet Weight Grams	Bullet Diameter Inch.	Bullet Diameter MM	Bullet Index No.	Case Index No.	No. cartr. or unprimed cases Case	No. cartr. or unprimed cases Box	Weight Case Lbs	Weight Case Kos.	Weight Box Oz.	Weight Box Kos.
No. 50 Soft point semi pointed boattail Ⓣ	180	11.6	.308	7.83	528	767	1000	20	91	41.7	28.2	0.80
No. 53 Soft point round nose Ⓣ	220	14.2	.308	7.83	534	767	1000	20	98	44.3	30.0	0.85

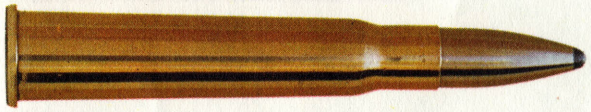
7.65 ARGENTINE



NO. 187

No. 187 Soft point semi pointed Ⓣ	150	9.7	.311	7.92	564	815	1000	20	59	27.0	19.7	0.56

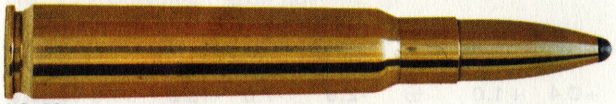
303 BRITISH



NO. 56

No. 55 Soft point semi pointed	130	8.4	.311	7.92	536	768	1000	20	64	29.0	19.4	0.55
No. 147 Soft point semi pointed Ⓣ	150	9.7	.311	7.92	564	768	1000	20	67	30.3	20.1	0.57
No. 56 Soft point semi pointed boattail	180	11.6	.311	7.92	537	768	1000	20	72	32.5	21.8	0.62

7.7 JAP.



NO. 58

No. 110 Soft point semi pointed	130	8.4	.311	7.92	536	769	1000	20	60	27.4	19.7	0.56
No. 58 Soft point semi pointed boattail	180	11.6	.311	7.92	537	769	1000	20	69	31.3	22.2	0.63
No. 59 Soft point round nose	215	14.0	.311	7.92	538	769	1000	20	70	31.8	24.3	0.69

8x57 JR

NO. 61

No. 61 Soft point round nose Ⓣ	196	12.7	.318	8.10	539	770	1000	20	68	31.1	23.3	0.66

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

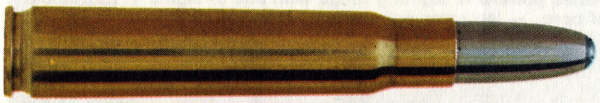
BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity — Feet per sec.				Energy — Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
LR	204	47700	2920	2706	2500	2297	3409	2927	2499	2109	-0.3	+0.6	+1.6	+1.5	⊕	-2.8	-7.2	-21.0	-42.7
LR	204	48800	2620	2400	2170	1986	3367	2814	2301	1927	±0.0	+1.1	+2.3	+2.0	⊕	-3.8	-9.6	-27.9	-56.9
LR	201	46200	2920	2630	2355	2105	2841	2304	1848	1476	-0.5	+0.2	+0.7	⊕	-2.1	-5.8	-11.3	-28.4	-55.7
LR	200	40500	2790	2483	2195	1929	2246	1780	1391	1075	-0.4	+0.3	+0.9	⊕	-2.5	-6.7	-13.1	-33.1	-65.4
LR	201	40000	2720	2440	2170	1930	2465	1983	1569	1241	-0.4	+0.4	+0.9	⊕	-2.6	-6.9	-13.4	-33.7	-66.0
LR	203	42300	2540	2340	2147	1965	2579	2189	1843	1544	-0.3	+0.5	+1.0	⊕	-2.8	-7.5	-14.2	-34.7	-65.9
LR	203	38600	2952	2635	2340	2065	2513	2004	1581	1231	-0.5	+0.2	+0.7	⊕	-2.1	-5.8	-11.3	-28.8	-57.0
LR	203	38000	2493	2292	2101	1922	2484	2100	1765	1477	-0.3	+0.6	+1.1	⊕	-2.9	-7.8	-14.9	-36.3	-69.0
LR	203	37500	2264	2023	1802	1603	2448	1954	1550	1227	±0.0	+1.0	+1.6	⊕	-3.9	-10.6	-20.2	-50.1	-97.1
LR	203	37300	2362	2045	1761	1513	2428	1820	1530	996	-0.1	+0.9	+1.5	⊕	-3.9	-10.6	-20.6	-52.7	-105.2

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210")

norma CENTERFIRE RIFLE CARTRIDGES

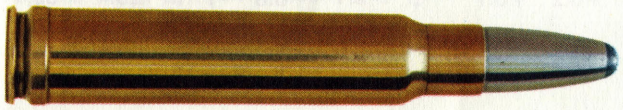
8x57 JS



NO. 65

	Bullet Weight Grains	Bullet Weight Grams	Bullet Diameter Inch.	Bullet Diameter MM	Bullet Index No.	Case Index No.	No. cartr. or unprimed cases Case	No. cartr. or unprimed cases Box	Weight Case Lbs	Weight Case Kos.	Weight Box Oz.	Weight Box Kos.
No. 63 Soft point semi pointed	123	8.0	.323	8.20	541	772	1000	20	57	26.1	18.7	0.53
No. 64 Soft point round nose Ⓣ	159	10.3	.323	8.20	542	772	1000	20	63	28.7	21.5	0.61
No. 65 Soft point round nose Ⓣ	196	12.7	.323	8.20	540	772	1000	20	68	31.0	11.3	0.32
No. 69 Soft point round nose Ⓣ	227	14.7	.323	8.20	546	772	1000	20	75	34.0	25.0	0.71

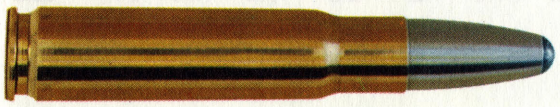
358 NORMA MAGNUM



NO. 152

No. 152 Soft point semi pointed Ⓣ	250	16.2	.358	9.10	548	796	1000	20	91	41.5	31.7	0.90

358 WIN.



NO. 72

No. 71 Soft point semi pointed Ⓣ	200	13.0	.358	9.10	547	774	1000	20	66	30.0	22.2	0.63
No. 72 Soft point semi pointed Ⓣ	250	16.2	.358	9.10	548	774	1000	20	80	36.7	24.7	0.70

9.3x57

No. 74 Soft point round nose Ⓣ	286	18.5	.365	9.27	550	775	1000	20	89	40.3	27.1	0.77

9.3x62

No. 75 Hollow point boattail	232	15.0	.365	9.27	549	776	1000	20	85	38.5	26.1	0.74

375 H&H

NO. 85

No. 85 Soft point semi pointed	300	19.4	.375	9.54	554	778	1000	20	100	51.8	45.3	1.00
No. 90 Soft point "Nosler"	300	19.4	.375	9.54	653	778	1000	20	100	51.8	45.3	1.00

Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

BALLISTICS – 24 INCH BARREL

Norma Primer	Norma Powder	Pressure Psi	Velocity — Feet per sec.				Energy — Foot pounds				⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore. + indicates point of impact in inches above, - in inches below sighting point.								
			Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	25 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
LR	200	44300	2888	2515	2170	1857	2277	1728	1286	942	-0.5	+0.3	+0.8	⊕	-2.4	-6.7	-13.1	-34.0	-68.9
LR	203	44600	2724	2362	2030	1734	2618	1970	1455	1062	-0.4	+0.4	+1.0	⊕	-2.8	-7.7	-15.2	-39.2	-83.8
LR	203	47100	2526	2195	1894	1627	2778	2097	1562	1152	-0.2	+0.6	+1.2	⊕	-3.3	-9.1	-17.6	-44.3	-90.6
LR	203	47100	2329	2085	1855	1650	2737	2192	1735	1373	-0.1	+0.9	+2.2	⊕	-3.7	-9.9	-19.0	-47.2	-91.6
LR	203	51100	2800	2493	2231	2001	4322	3451	2764	2223	-0.4	+0.3	+0.8	⊕	-2.4	-6.4	-12.4	-30.9	-59.2
LR	201	42100	2530	2210	1910	1640	2843	2170	1621	1195	-0.2	+0.6	+1.2	⊕	-3.3	-9.0	-17.4	-44.4	-88.8
LR	203	41000	2250	2010	1780	1570	2811	2243	1759	1369	±0.0	+1.0	+1.6	⊕	-4.0	-10.9	-21.0	-52.8	-104.0
LR	201	47100	2624	2304	2009	1742	3551	2735	2080	1564	-0.3	+0.5	+1.1	⊕	-3.1	-8.1	-15.7	-40.0	-79.7
LR	203	45100	2550	2280	2040	1830	4333	3464	2773	2231	-0.3	+0.6	+1.1	⊕	-3.0	-8.0	-15.3	-37.6	-72.1
LR	203	45100	2550	2280	2040	1830	4333	3464	2773	2231	-0.3	+0.6	+1.1	⊕	-3.0	-8.0	-15.3	-37.6	-72.1

PRIMER ABBREVIATIONS: SR= SMALL RIFLE (.175") LR= LARGE RIFLE (.210")

norma

LINE OF MAGNUMS

7 x 61

This modern long range Magnum cartridge has become famous for accuracy and excellent killing power, and its overall length permits the use of standard actions.

Bullet: 160 grain SP or Nosler
Velocity: 3100 feet/sec. (26" bbl.)
Energy: 3415 foot pounds

308 NORMA MAGNUM

Another of the extremely popular Norma "Short Magnums", the shortest, easiest and less expensive way to a magnum rifle.

Bullet: 180 grain Dual-Core
Velocity: 3100 feet/sec. (24" bbl.)
Energy: 3842 foot pounds

358 NORMA MAGNUM

The large caliber 358 Norma Magnum was the first cartridge design by the Norma Ballistic Laboratory to get into production. Originally designed around 1950, it was first offered to the market in 1959 and since then several well-known rifle makers have turned out excellent guns for it.

Bullet: 250 grain Soft point
Velocity: 2800 feet/sec. (24" bbl.)
Energy: 4322 foot pounds

BALLISTICS FOR NORMA MAGNUM CARTRIDGES:

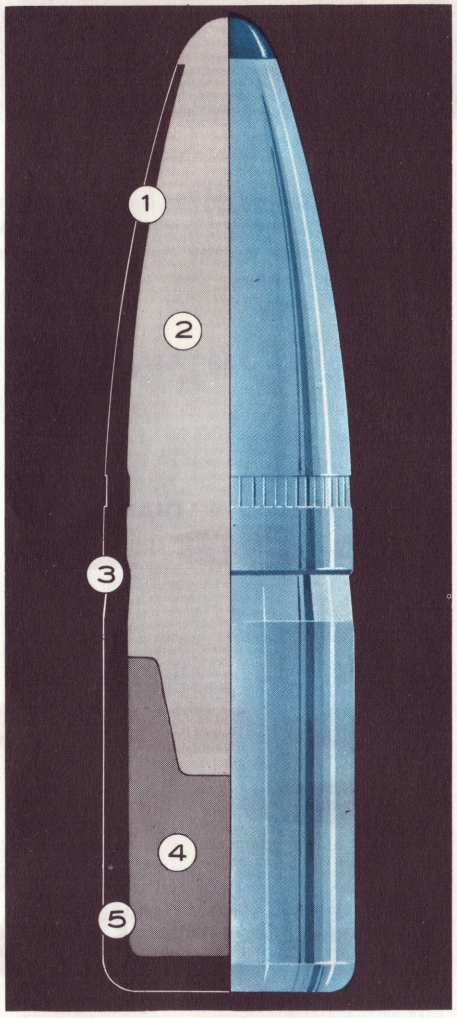
⊕ indicates preferable sighting range with line of sights 1 1/2" above center of bore
+ indicates point of impact in inches above – in inches below sighting point

Caliber	Weight		Pressure	Velocity-Feet per sec.				Energy-Foot pounds				25	50	100	150	200	250	300	400	500
	Grains	Grams	psi	Muzzle	100 Yards	200 Yards	300 Yards	Muzzle	100 Yards	200 Yards	300 Yards	Yards	Yards	Yards	Yards	Yards	Yards	Yards	Yards	Yards
7 x 61 Soft point	160	10.4	49000	3100	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
7 x 61 Nosler	160	10.4	49000	3100	2927	2757	2595	3415	3045	2701	2393	-0.4	+0.4	+1.3	+1.2	⊕	-2.3	-5.9	-16.9	-33.9
308 Norma M.	180	11.6	51600	3100	2881	2668	2464	3842	3318	2846	2427	-0.4	+0.4	+1.4	+1.2	⊕	-2.5	-6.2	-18.3	-37.1
358 Norma M.	250	16.2	51100	2800	2493	2231	2001	4322	3451	2764	2223	-0.4	+0.3	+0.8	⊕	-2.4	-6.4	-12.4	-30.9	-59.2

7 x 61 = 26 inch barrel. 308 and 358 = 24 inch barrel.

THE SUPERB HUNTING BULLET:

DUAL-CORE®



The Norma DUAL-CORE is a hunting bullet design featuring two lead cores behind each other. The front core has a 1,5% antimony content and thereby exactly the right toughness for perfect mushrooming. The rear core is hardened with 5% antimony which makes it stay together and increase penetration. The two cores are built into a special soft-steel jacket deliberately made thin at the expanding front end and reinforced at the rear to control expansion. A non-rusting, non-tarnishing coating acts as a lubricant between bullet and barrel increasing barrel life. The rotating, knifelike strips of the expanded steel jacket provide for an enormous killing power also by being stiff enough to remain at an angle and thereby support the expanded front lead. The Norma DUAL-CORE bullet is available in 308 Win, 30-06 and 308 Norma Magnum cartridges and also as a reloading component.

❶ Thin front jacket. ❷ Expanding front core. ❸ Cannelure and "step" in jacket. ❹ Hardened rear core. ❺ Reinforced rear jacket.

norma

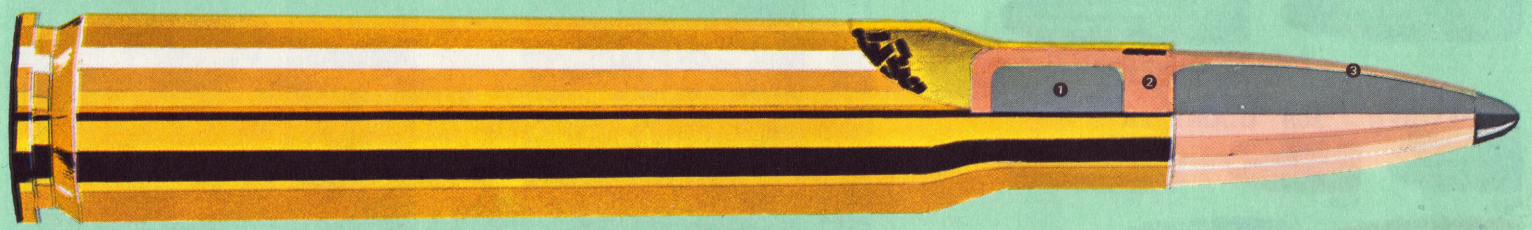
WITH NOSLER

The original American-made Nosler bullet in factory loaded Norma cartridges, a combination that enables also the non-reloading hunter to use this famous American projectile design.

NORMA WITH NOSLER

Caliber	Weight Grains	Weight Grams	Muzzle velocity	Muzzle energy	Pressure
270 Win.	130	8.4	3140	2847	48500
270 Win.	150	9.7	2800	2616	47400
7 x 61	160	10.4	3100*)	3415	49000
7 MM Rem. M.	175	11.3	3070	3660	52900
308 Win.	180	11.6	2610	2725	49000
30-06	150	9.7	2970	2943	44500
30-06	180	11.6	2700	2914	45300
375 H&H	300	19.4	2550	4333	45100

*) 26 inch barrel.



❶ Reinforced rear end of bullet gives deep penetration. ❷ The special partition positively controls expansion. ❸ Front part of jacket with tapering wall thickness for expansion.

norma RIFLE BULLETS

The super accurate Norma bullets come in a great variety of calibers and styles, covering the entire range from the smallest varmint to the heaviest bear or moose, - and targets at all ranges.

.22 CALIBER – .223" DIAMETER

679

.22 CALIBER – .224" DIAMETER

607 502 609

6 MM – .243" DIAMETER

503 504 565

566

.25 CALIBER – .257" DIAMETER

505 506 507

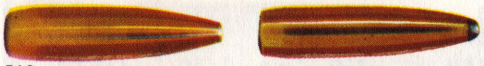
6.5 MM – .264" DIAMETER

510 618

512 509

.270 CALIBER – .277" DIAMETER

514 515

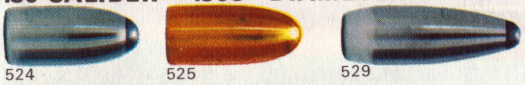

516 518

7 MM – .283" DIAMETER

519 520

523 522

.30 CALIBER – .308" DIAMETER


524 525 529

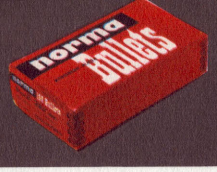
656 561

CONTINUED

Index No.	Bullet style	Weight		Number of bullets in		Weight			
		Grains	Grams	Case	Box	Case		Box	
						Lbs	Kos.	Oz.	Kos.
679	Soft point semi pointed	45	2.9	10000	100	79	36.0		0.305
607	Soft point semi pointed	50	3.2	10000	100	86	39.0	11.8	0.335
502	Full jacket semi pointed	50	3.2	10000	100	86	39.0	11.8	0.335
609	Soft point semi pointed	55	3.6	10000	100	93	42.0	13.2	0.375
503	Hollow point	75	4.9	10000	100	119	54.0	18.0	0.512
504	Soft point semi pointed	90	5.8	10000	100	141	64.0	21.2	0.602
565	Full jacket semi pointed	100	6.5	10000	100	154	70.0	23.7	0.672
566	Soft point semi pointed	100	6.5	10000	100	154	70.0	23.7	0.672
505	Soft point semi pointed	87	5.6	10000	100	137	62.0	20.5	0.582
506	Soft point semi pointed	100	6.5	10000	100	154	70.0	23.7	0.672
507	Soft point semi pointed	120	7.8	6000	100	117	53.0	28.3	0.802
510	Soft point semi pointed	77	5.0	10000	100	123	56.0	18.4	0.522
618	Soft point semi pointed boattail	139	9.0	6000	100	132	60.0	32.5	0.922
512	Full jacket pointed boattail	139	9.0	6000	100	132	60.0	32.5	0.922
509	Soft point round nose	156	10.1	6000	100	145	66.0	36.4	1.032
514	Soft point semi pointed	110	7.1	6000	100	108	49.0	25.8	0.732
515	Soft point semi pointed boattail	130	8.4	6000	100	123	56.0	30.4	0.862
516	Hollow point boattail	130	8.4	6000	100	123	56.0	30.4	0.862
518	Soft point semi pointed boattail	150	9.7	6000	100	141	64.0	35.0	0.992
519	Soft point semi pointed	110	7.1	6000	100	108	49.0	25.8	0.732
520	Soft point semi pointed boattail	150	9.7	6000	100	141	64.0	35.0	0.992
523	Soft point semi pointed boattail	160	10.4	6000	100	147	67.0	37.4	1.062
522	Soft point round nose	175	11.3	6000	100	161	73.0	40.6	1.152
524	Soft point round nose	110	7.1	6000	100	108	49.0	25.8	0.732
525	Full jacket round nose	110	7.1	6000	100	108	49.0	25.8	0.732
529	Soft point semi pointed boattail	130	8.4	6000	100	123	56.0	30.4	0.862
656	Full jacket pointed boattail	146	9.5	6000	100	144	65.5	34.3	0.972
561	Soft point flat nose	150	9.7	6000	100	141	64.0	35.0	0.992

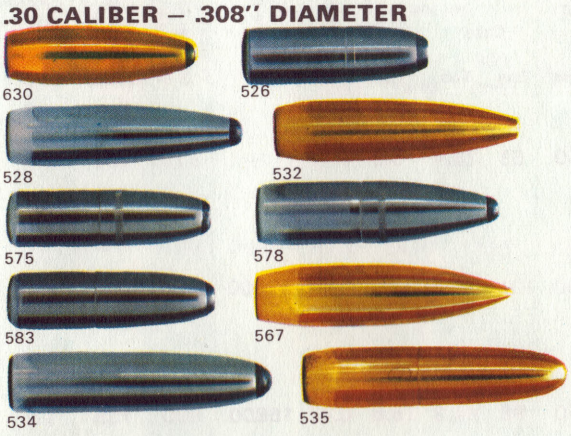
NOTICE: Silver – coloured bullets are made with the famous Norma TRI-CLAD® jacket.

norma RIFLE BULLETS

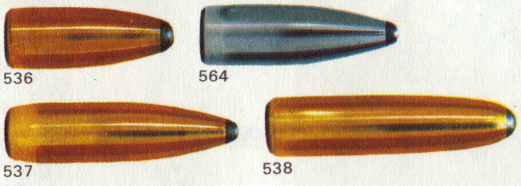


CONTINUED

.30 CALIBER – .308" DIAMETER

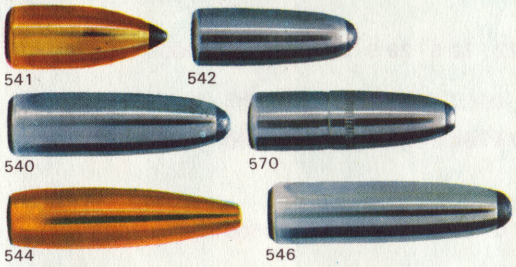


.303 CALIBER – .311" DIAMETER

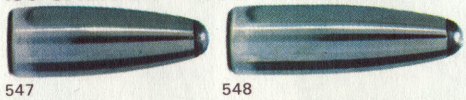


8 MM – .318" DIAMETER

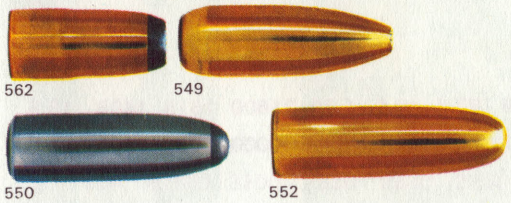
8 MM S – .323" DIAMETER



.35 CALIBER – .358" DIAMETER



9.3 MM – .365" DIAMETER



Index No.	Bullet style	Weight Grains	Weight Grams	Number of bullets in Case	Number of bullets in Box	Weight Case Lbs	Weight Case Kos.	Weight Box Oz.	Weight Box Kos.
630	Soft point semi pointed boattail	150	9.7	6000	100	141	64.0	35.0	0.992
526	Soft point flat nose	170	11.0	6000	100	157	71.5	39.5	1.122
528	Soft point semi pointed boattail	180	11.6	6000	100	165	75.0	41.7	1.182
532	Hollow point boattail	180	11.6	6000	100	165	75.0	41.7	1.182
575	Soft point "Dual-Core" round-n.	180	11.6	6000	100	165	75.0	41.7	1.182
578	Soft point "Dual-Core" semi-p.	180	11.6	6000	100	165	75.0	41.7	1.182
583	Soft point round nose	180	11.6	6000	100	165	75.0	41.7	1.182
567	Full jacket boattail "Match"	187	12.1	4000	100	120	54.5	43.4	1.232
534	Soft point round nose	220	14.2	4000	100	138	62.5	50.8	1.442
535	Full jacket round nose boattail	220	14.2	4000	100	138	62.5	50.8	1.442
536	Soft point semi pointed	130	8.4	6000	100	125	56.5	30.4	0.862
564	Soft point semi pointed	150	9.7	6000	100	141	64.0	35.0	0.992
537	Soft point semi pointed boattail	180	11.6	6000	100	165	75.0	41.7	1.182
538	Soft point round nose	215	14.0	4000	100	136	61.5	50.4	1.430
539	Soft point round nose	196	12.7	4000	100	125	56.5	45.8	1.300
541	Soft point semi pointed	123	8.0	6000	100	119	54.0	29.3	0.830
542	Soft point round nose	159	10.3	6000	100	149	67.5	37.4	1.060
540	Soft point round nose	196	12.7	4000	100	125	56.5	45.8	1.300
570	Soft point "Dual-Core"	196	12.7	4000	100	125	56.5	45.8	1.300
544	Hollow point boattail	198	12.8	4000	100	126	57.0	46.2	1.310
546	Soft point round nose	227	14.7	4000	100	142	64.5	52.9	1.500
547	Soft point semi pointed	200	13.0	4000	100	127	57.5	46.9	1.330
548	Soft point semi pointed	250	16.2	4000	100	155	70.5	58.2	1.650
562	Soft point flat nose	200	13.0	4000	100	127	57.5	46.9	1.330
549	Hollow point boattail	232	15.0	4000	100	144	65.5	53.9	1.530
550	Soft point round nose	286	18.5	4000	100	175	79.5	66.3	1.880
552	Full jacket round nose	286	18.5	4000	100	175	79.5	66.3	1.880

NOTICE: Silver – coloured bullets are made with the famous Norma TRI-CLAD® jacket.

norma PISTOL & REVOLVER CARTRIDGES

Norma handgun ammunition means maximum accuracy and reliability in functioning in all types of revolvers and automatic pistols.

	Index No.	Bullet Style	Bullet Grains	Bullet Grams	Bullet Diameter Inch.	Bullet Diameter MM	Bullet Index No.	Case Index No.	No. cartr. unprimed cases Case	No. cartr. unprimed cases Box	Weight Case Lbs	Weight Case Kos.	Weight Box Oz.	Weight Box Kos.	Pressure psi	Velocity feet per sec. V Muzzle	Energy foot pounds E Muzzle	Barrel length inch.
25 ACP	252	FJRN	50	3.2	.251	6.38	680	845	5000	50	63	28.4	5.3	0.15	—	810	100	2.0
30 LUGER	88	FJRN	93	6.0	.308	7.81	556	780	4000	50	101	46.1	22.9	0.65	33000	1230	312	4.7
32 ACP	86	FJRN	77	5.0	.308	7.81	555	779	5000	50	98	44.3	16.6	0.47	16800	900	139	4.0
32 S&W LONG	253	LRN	98	6.4	.314	7.98	681	846	2000	50	116	52.7	7.0	0.20	—	705	151	4.0
7.5 NAGANT	186	LRN	104	6.7	.327	8.03	592	800	3000	50	76	34.7	22.9	0.55	15000	722	142	4.5
9 MM LUGER	91	FJRN	116	7.5	.355	9.02	557	781	4000	50	113	51.6	24.3	0.69	29400	1165	350	4.7
357 MAGNUM	174	SPFN	158	10.2	.357	9.07	576	806	2000	50	80	36.4	33.5	0.95	33600	1520	811	8.3/8
38 SPECIAL	96	LW	148	9.6	.357	9.07	558	782	2000	50	72	32.5	28.9	0.82	17600	800	195	6.0
	97	LRN	158	10.2	.357	9.07	559	782	2000	50	75	34.2	31.0	0.88	20600	870	266	6.0
	95	FJSW	158	10.2	.356	9.05	651	782	2000	50	76	34.4	31.7	0.90	20600	900	285	6.0
38 S&W	216	LRN	146	9.5	.358	9.12	605	820	2000	50	69	31.3	28.2	0.80	13200	730	173	4.0
	242	FJRN*	180	11.6	.358	9.12	658	820	2000	50	77	35.2	33.5	0.95	20600	755	228	4.0
44 MAGNUM Ⓣ	175	SPFN	240	15.6	.430	10.95	577	808	2000	50	116	52.7	49.0	1.39	31600	1675	1496	18.5
	176	SPFN	240	15.6	.430	10.95	577	808	2000	20	117	52.8	49.0	1.39	39000	1705**	1550	18.5

* 380 Revolver cartridge
** Special carbine load, case cannelured for identification

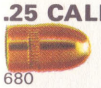
FJRN = Full jacket round nose
LRN = Lead round nose

LW = Lead wadcutter
FJSW = Full jacket semi wadc.
SPFN = Soft point flat nose

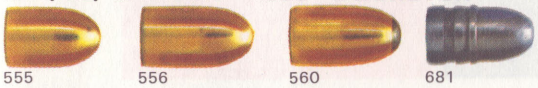
norma PISTOL & REVOLVER BULLETS

Norma handgun bullets for reloading: Half- and full jackets also lead round nose and wadcutters for target use. Tops in this line are the special Norma designs described at the bottom of this page.

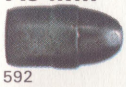
.25 CALIBER – .251" DIAMETER


680

.30 (.32) CALIBER – .308" DIAMETER


555 556 560 681

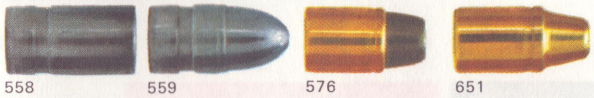
7.5 MM – .327" DIAMETER


592

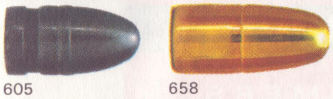
9 MM – .355" DIAMETER

557

.38 CALIBER – .357" DIAMETER


558 559 576 651

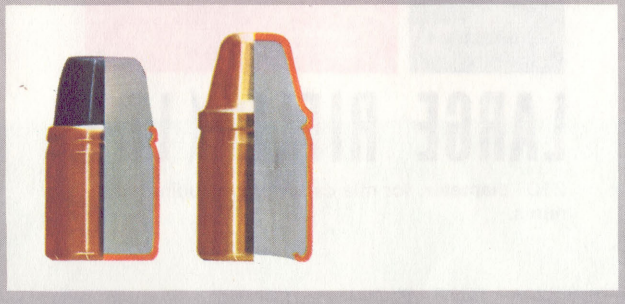
.38 CALIBER – .358" DIAMETER


605 658

.44 CALIBER – .430" DIAMETER

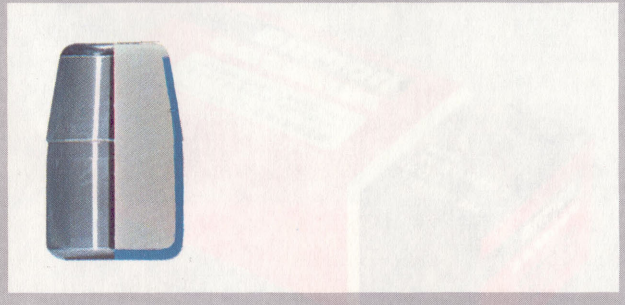
577 Ⓣ

Index No.	Bullet style	Weight Grains	Weight Grams	Number of bullet in Case	Number of bullet in Box	Weight Case Lbs	Weight Case Kos.	Weight Box Oz.	Weight Box Kos.
680	Full jacket round nose	50	3.2	10000	100	84	38.0	12.0	0.340
555	Full jacket round nose	77	5.0	10000	100	123	56.0	18.4	0.522
556	Full jacket round nose	93	6.0	10000	100	145	66.0	21.9	0.622
560	Soft point round nose	93	6.0	10000	100	145	66.0	21.9	0.622
681	Lead round nose	98	6.4	10000	100	154	70.0	23.3	0.660
592	Lead round nose	104	6.7	6000	100	100	45.5	24.4	0.692
557	Full jacket round nose	116	7.5	10000	100	177	80.5	27.2	0.772
558	Lead wadcutter	148	9.6	6000	100	140	63.5	34.6	0.982
559	Lead round nose	158	10.2	6000	100	149	67.5	36.7	1.042
576	Soft point flat nose	158	10.2	6000	100	146	66.5	36.7	1.042
651	Full jacket semi wadcutter	158	10.2	6000	100	146	66.5	36.7	1.042
605	Lead round nose	146	9.5	6000	100	138	62.5	34.3	0.972
658	Full jacket round nose	180	11.6	6000	100	165	75.0	41.7	1.182
577	Soft point flat nose	240	15.6	4000	100	150	68.0	56.0	1.590



357 AND 38 SPL BULLETS

More accurate than lead bullets, these designs are also the handloaders delight: They come ready for seating in the case, no sizing, no lubricating, no barrel leading and they still do not increase barrel wear.

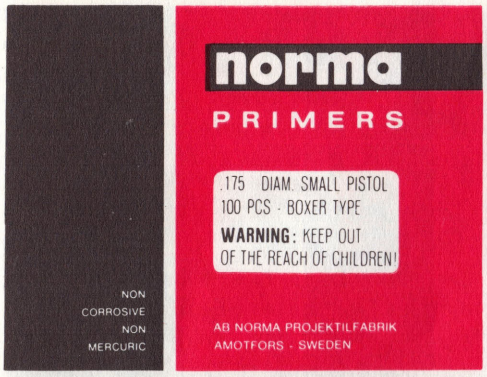


44 MAGNUM BULLETS

Norma brought out the first jacketed bullet for the powerful 44 Magnum cartridge, providing 44 handgunners with all the advantages mentioned above plus greatly improved hunting efficiency also for the 44 Magnum carbine enthusiast. Like the 357 bullets above this bullet can be loaded to any velocity that the breech pressure will permit.

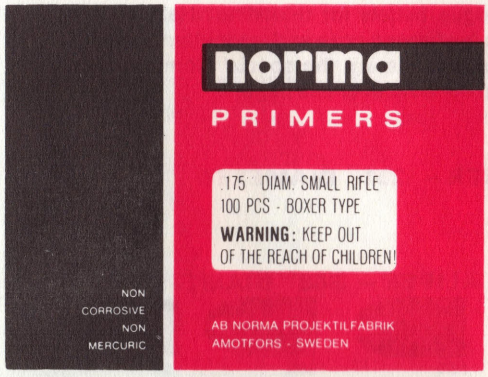
Ⓣ Norma TRI-CLAD® bullet, a soft steel jacket covered with gilding metal or nickel alloy on both sides preventing corrosion and barrel wear.

norma PRIMERS



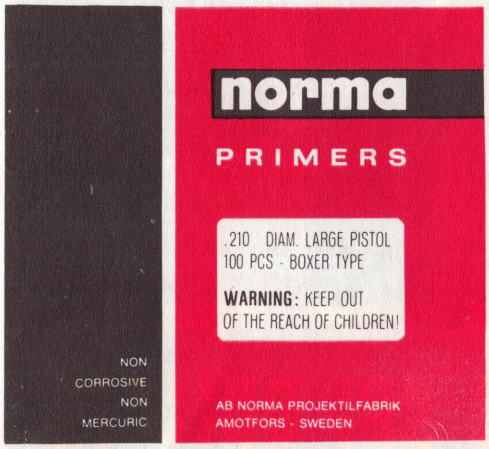
SMALL PISTOL (SP)

175" diameter, for revolver- and automatic pistol cartridges.



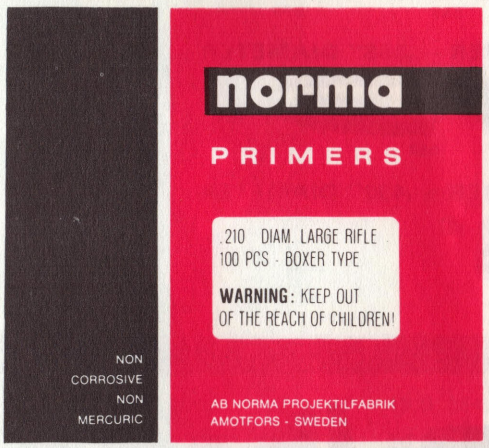
SMALL RIFLE (SR)

175" diameter, for small caliber rifle cartridges, such as .222, .30 US carbine and others.



LARGE PISTOL (LP)

210" diameter, for large caliber revolver- and automatic cartridges.



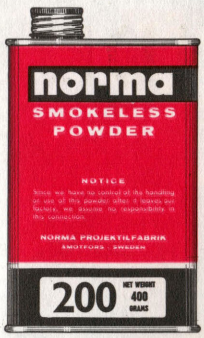
LARGE RIFLE (LR)

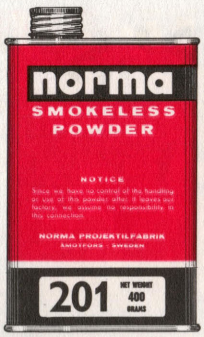
210" diameter, for rifle cartridges including magnums.

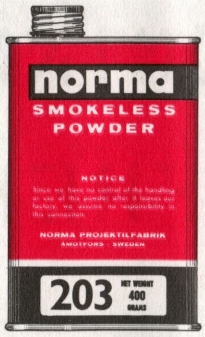
THE NORMA PRIMER PROGRAM

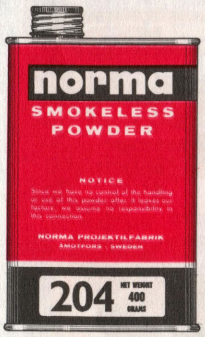
consists of four types that cover the entire range of rifle and handgun ammunition, eliminating the necessity of a special magnum primer. Norma primers incorporate in every detail the most advanced metallurgical and chemical developments. Packed in boxes of 100, cartons of 1000.

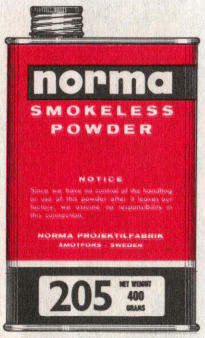
norma SMOKELESS POWDERS











THE norma RIFLE POWDER PROGRAM

is a line of ultra-modern tubular grain nitro-cellulose powders. They are extremely clean-burning, and give high bullet velocities with low breech pressures and temperatures, reducing strain on the gun mechanism and barrel erosion to a minimum. The flexibility of Norma powders permit their use over a great variety of cartridge and bullet combinations.

200

This is the fastest burning Norma rifle powder, especially adapted for small capacity cartridge cases such as the .222, but also most excellent for use with light bullets and/or light loads in the larger calibers. Packed in canisters of 400 grams net.

201

Slower than the 200, this is still a pretty fast-burning powder and is therefore used with the lighter bullets in medium-size cases, or with some big-caliber cartridges where there is a large bore volume to be filled up quickly by the expanding gases. Packed in canisters of 400 grams net.

203

Being of medium burning rate, this is the powder most widely used with Norma ammunition. The 203 is adjusted to fit the medium-sized cartridge types such as the .30—06, .303 British, European 7 and 8 MM's etc. unless light bullets necessitate a faster powder. Canisters of 400 grams net.

204

A slow-burning powder, especially adapted for cartridges with a large case capacity and/or using heavy bullets in relation to the caliber. It fits the .270 Win. excellently, also many necked-down wildcat cartridges. Canisters of 400 grams net.

205

An exceptionally slow-burning, high-energy powder for highest velocity with large capacity cases. Do not load below recommended *minimum* with this powder type. Canisters of 400 grams net.

For loading data, get the latest edition of the Norma "GUNBUG'S GUIDE®" available at $ 1.00 from your dealer. Lacking suitable source of information on data or supply, you may write AB Norma Projektilfabrik, Åmotfors, Sweden.

R-1

This powder is especially made for the .38 Special and similar revolver cartridges, both for wadcutter and round nose lead bullets. "R" stands for revolver. Canisters of 275 grams net.

R-23

is a new powder development, replacing the earlier R-2 and R-3, giving same velocities with less pressure both in the .357 and .44 Magnum revolver cartridges. Canisters of 400 grams net.

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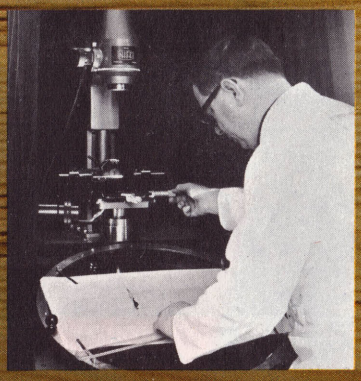
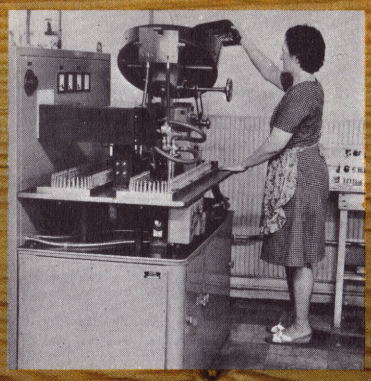
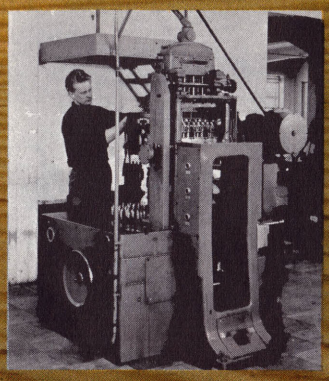
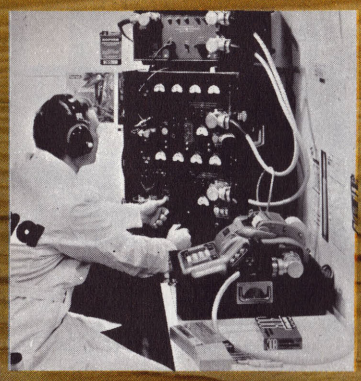
Having read the Beginner's Guide you're ready for studying the various aspects of ammunition on a wider basis. The Gunbug's Guide tells you how ammunition is made, how bullet velocities and breech pressures are measured, what cartridge names and designations mean, how to handle brass in reloading plus several pages of loading data for Norma powders, incorporating a low-velocity plinking load, a medium and a maximum recommended load for each caliber and bullet weight. You get all this information for one dollar.

PICTURES FROM THE GUNBUG'S GUIDE









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